CSC116: System Test Plan for BankCalculator

System Test Plan for BankCalculator

The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C. You will need to fill in your Actual Results for the given tests and write the six additional tests, including actual results (highlighted in yellow). Be sure to add your name as the author for the tests you write.

| Test ID | Description | Expected Results | Actual Results |
|---|---|--|--|
| testMenu | Preconditions: BankCalculator program started | Bank Calculator - Please choose an option. | Bank Calculator - Please choose an option. |
| Author: Dr. Balik | <ctrl +="" c="" exit="" to=""></ctrl> | L - Loan D - Deposit Q - Quit | L - Loan D - Deposit Q - Quit |
| | | Option: | Option: |
| testInvalidOptionWithMor eThanOneCharacter | Preconditions: BankCalculator program started | Invalid option | Invalid option |
| Author: Dr. Balik | Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option: loan | Menu is redisplayed | Menu is redisplayed |
| | Invalid option <ctrl +="" c="" exit="" to=""></ctrl> | | |
| testLoanInterest8To9 | Preconditions: BankCalculator program started | Monthly Payment | Monthly Payment |
| Author: Dr. Balik | Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit | Interest 12 mos 24 mos 36 mos 48 mos 60 mos 72 mos | Interest 12 mos 24 mos 36 mos 48 mos 60 mos 72 mos |
| | Option: L Amount: 25000 Minimum interest rate: 8 Maximum interest rate: 9 <ctrl +="" c="" exit="" to=""></ctrl> | Menu is redisplayed | Menu is redisplayed |
| | | | |

| Test ID | Description | Expected Results | Actual Results |
|---|---|---|--|
| testDepositInterest3Years | Preconditions: BankCalculator program started | Final Amount | Final Amount |
| 5 Author: Dr. Balik | Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit | No Monthly Continuous Interest Compounding Compounding 3% 2696.75 2723.99 2724.50 | No Monthly Continuous Interest Compounding Compounding |
| | Option: D Amount: 2345 Years: 5 Minimum interest rate: 3 Maximum interest rate: 3 <ctrl +="" c="" exit="" to=""></ctrl> | Menu is redisplayed | Menu is redisplayed |
| testNegativeLoanAmount | Preconditions: BankCalculator program started | Invalid value | Invalid value |
| Author: Eric Samuel | Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option: L Amount: -1000 Invalid value | Menu is redisplayed | Menu is redisplayed |
| testDepositAmountValidB oundary Author: Eric Samuel | Preconditions: BankCalculator program started Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option: D Amount: 1 Years: 10 | Final Amount No Monthly Continuous Interest Compounding Compounding | Final Amount No Monthly Continuous Interest Compounding Compounding |

| | Minimum interest rate: 3 | | |
|--------------------------|---|--|--|
| | Maximum interest rate: 3 | | |
| | | | |
| | <ctrl +="" c="" exit="" to=""></ctrl> | | |
| testInvalidLoanMinimumIn | Preconditions: BankCalculator program started | Invalid value | Invalid value |
| terestRateBoundary | Treconations. Bankealediator program started | invalid valide | invalid value |
| terestriateboundary | Bank Calculator - Please choose an option. | | |
| Author: Eric Samel | Bunk calculator Trease enouse an option. | Menu is redisplayed | Menu is redisplayed |
| / tutilon Ene sumer | L - Loan | Theria is redisplayed | There is realisplayed |
| | D - Deposit | | |
| | Q - Quit | | |
| | | | |
| | Option: L | | |
| | Amount: 1000 | | |
| | Minimum interest rate: 0 | | |
| | Invalid value | | |
| | | | |
| | | | |
| | <ctrl +="" c="" exit="" to=""></ctrl> | | |
| | | | |
| testCombinationNumberA | Preconditions: BankCalculator program started | Invalid option | Invalid option |
| ndLettersOptionInput | | | |
| | Bank Calculator - Please choose an option. | | |
| | | Menu is redisplayed | Menu is redisplayed |
| Author: Eric Samuel | L - Loan | | |
| | D - Deposit | | |
| | Q - Quit | | |
| | | | |
| | Option: sdli293 | | |
| | Invalid option | | |
| | | | |
| | <ctrl +="" c="" exit="" to=""></ctrl> | | |
| testLoanInterest1to2 | Preconditions: BankCalculator program started | Monthly Payment | Monthly Payment |
| testeodimiterestitoz | Treconditions. Bankealculator program started | Worthly Fayment | Worthly Layment |
| Author: Eric Samuel | Bank Calculator - Please choose an option. | Interest 12 mos 24 mos 36 mos 48 mos 60 mos 72 mos | Interest 12 mos 24 mos 36 mos 48 mos 60 mos 72 mos |
| | | | |
| | L - Loan | 1% 83.79 42.10 28.21 21.26 17.09 14.32 | 1% 83.79 42.10 28.21 21.26 17.09 14.32 |
| | D - Deposit | 2% 84.24 42.54 28.64 21.70 17.53 14.75 | 2% 84.24 42.54 28.64 21.70 17.53 14.75 |
| | Q - Quit | | |
| | | | |
| | Option: L | Menu is redisplayed | Menu is redisplayed |
| | Amount: 1000 | | |
| | Minimum interest rate: 1 | | |
| | Maximum interest rate: 2 | | |
| | | | |
| | | | |
| | <ctrl +="" c="" exit="" to=""></ctrl> | | |
| | | | |

| testDepositLetterInputMa | Preconditions: BankCalculator program started | Invalid value | Invalid value |
|--------------------------|---|---------------------|---------------------|
| ximumInterestRate | | | |
| | Bank Calculator - Please choose an option. | | |
| Author: Eric Samuel | | Menu is redisplayed | Menu is redisplayed |
| | L - Loan | | |
| | D - Deposit | | |
| | Q - Quit | | |
| | | | |
| | Option: D | | |
| | Amount: 1000 | | |
| | Years: 2 | | |
| | Minimum interest rate: 1 | | |
| | Maximum interest rate: aax | | |
| | Invalid value | | |
| | | | |
| | <ctrl +="" c="" exit="" to=""></ctrl> | | |